



Gulf of Mexico Harmful Algal Bloom Bulletin

8 September 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: September 6, 2005

Conditions: A harmful algal bloom has been identified from Northern Pinellas to Lee County. From northern Pinellas to Lee County the following conditions are possible: patchy very low to low impacts today and tonight, patchy low to moderate impacts on Friday, and patchy very low to low impacts Saturday through Sunday. A harmful algal bloom has been identified in the Florida Panhandle. Patchy very low to low impacts are possible today through Sunday in Southern Franklin, Taylor, and Dixie Counties. There have been reports of dead fish in the past few days. Dead fish smell, while unpleasant, does not produce the same respiratory irritation as red tide.

Analysis: Bloom persists from Northern Pinellas to Lee County. Imagery from September 6 indicates high chlorophyll concentrations ($>15\mu\text{g/L}$) as far north as $83^{\circ} 17' \text{ W } 28^{\circ} 45' \text{ N}$, offshore of northern Hernando and Citrus County. Sampling is recommended. The southern most extent of the bloom was found at $26^{\circ} 29' \text{ N}$. Recent sampling indicates high concentrations of *K. Brevis* at Anna Maria Island (FWRI 9/6), Bunces Pass (FWRI 9/8), Tarpon Bay Beach (FWRI 9/7), and Venice Fishing Pier (9/7). North winds today and this weekend may cause southern transport of the southern extent. There are still no reports of *K. Brevis* in Collier County (9/6).

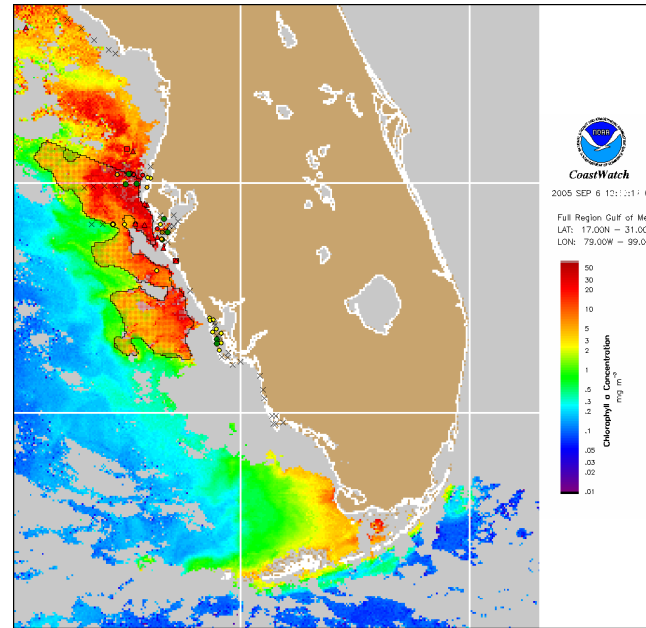
Imagery illustrates (9/6) high chlorophyll concentrations ($>20\mu\text{g/L}$) extending offshore from Dixie to Gulf County. There have been reports of fish kills and respiratory irritation in the past few days. Sampling is recommended as far west as $85^{\circ} 12' \text{ W } 29^{\circ} 33' \text{ N}$. Chlorophyll concentrations greater than $20\mu\text{g/L}$ were found onshore Franklin County at $84^{\circ} 59' \text{ W } 29^{\circ} 38' \text{ N}$. North and northeasterly winds will minimize beach impacts throughout the weekend and cause slight offshore

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

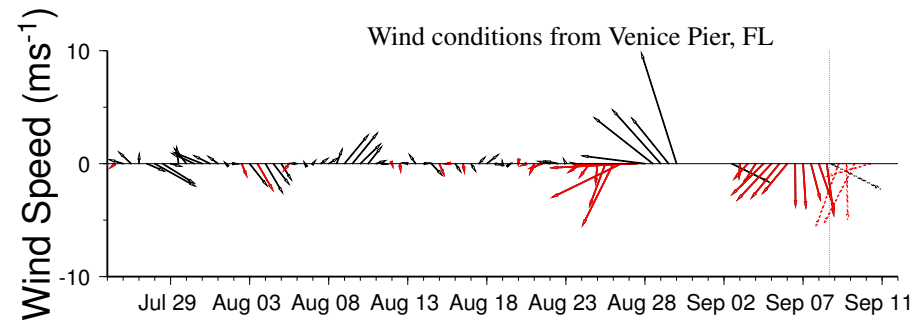
1. These data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Distribution for military, or commercial purposes is NOT permitted.
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4. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.

movement.

~ Keller, Stolz



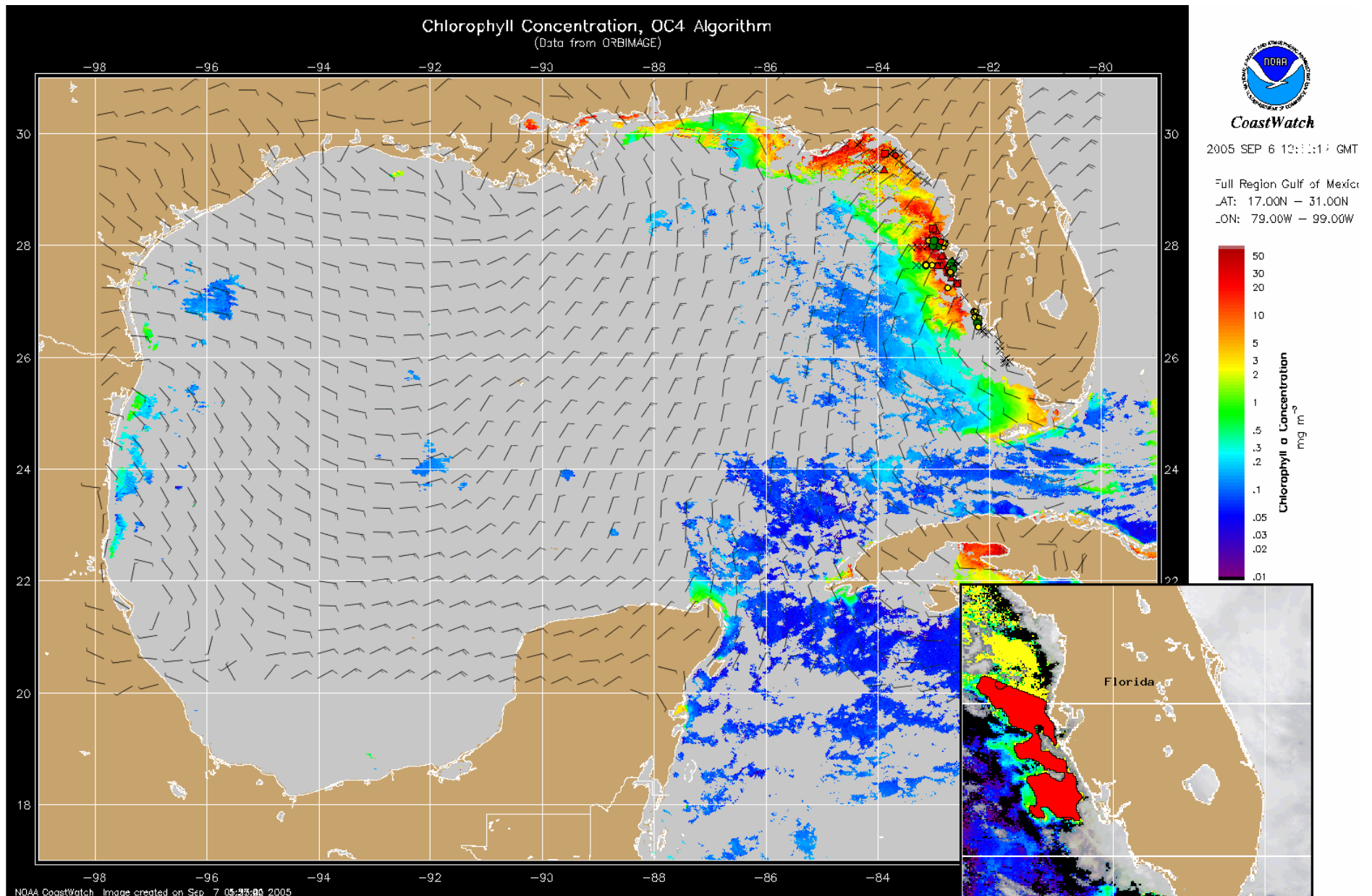
Chlorophyll concentration from satellite with HAB areas shown by red polygon(s). Cell concentration sampling data from August 25, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: North winds this afternoon through tonight at 15-20 knots (8-10 m/s), turning northwest on Friday at 15 knots (8 m/s). North winds on Saturday at 10-15 knots (5-8 m/s), shifting to northeast winds on Sunday at 10-15 knots (5-8 m/s).

FL Panhandle: North to northeasterly winds today through Sunday at 5-15 knots (3-8 m/s).



Chlorophyll concentration from satellite and forecast winds for September 9, 2005 06Z with cell concentration sampling data from August 25, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis)

